



COPY OF PAPERS  
ORIGINALLY FILED

PATENT  
Attorney Docket No. 210556

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ghosh et al.

Art Unit: 1619

Application No. 09/851,882

Examiner: G. Yu

Filed: May 9, 2001

For: COSMETIC COMPOSITION WITH  
IMPROVED SKIN  
MOISTURIZING PROPERTIES

**PENDING CLAIMS AFTER AMENDMENTS  
MADE IN RESPONSE TO OFFICE ACTION DATED NOVEMBER 8, 2001**

1. A cosmetic composition comprising urea and coenzyme Q10, wherein the ratio of urea to coenzyme Q10 in the composition is from about 1:5 to about 20:1 (wt./wt.).
2. The composition of claim 1, wherein the composition is in the form of an emulsion.
3. The composition of claim 2, wherein the emulsion is an oil-in-water or water-in-oil emulsion.
4. The composition of claim 1, further comprising water, which is present in an amount of from about 50% to about 90% by weight of the composition.
5. The composition of claim 3, further comprising oil, which is present in an amount of from about 10% to about 50% by weight of the composition.
6. The composition of claim 1, wherein the urea is present in an amount of from about 0.02% to about 15% by weight of the composition.
7. The composition of claim 6, wherein the urea is present in an amount of from about 0.1% to about 10% by weight of the composition.

8. The composition of claim 1, wherein the coenzyme Q10 is present in an amount of from about 0.001% to about 5% by weight of the composition.

9. The composition of claim 8, wherein the coenzyme Q10 is present in an amount of from about 0.01% to about 2% by weight of the composition.

10. The composition of claim 1, wherein the ratio of urea to coenzyme Q10 in the composition is at least about 3:1 (wt./wt.).

11. The composition of claim 1, wherein the ratio of urea to coenzyme Q10 in the composition is at least about 6:1 (wt./wt.).

12. The composition of claim 1, further comprising an emulsifier.

13. The composition of claim 12, wherein the emulsifier is present in an amount of from about 1.5% to about 20% by weight of the composition.

14. The composition of claim 1, further comprising a thickener.

15. The composition of claim 14, wherein the thickener is selected from the group consisting of gums, cellulosics, acrylic polymers, carbomers, and combinations thereof.

16. The composition of claim 14, wherein the thickener is present in an amount of from about 0.1% to about 5% by weight of the composition.

17. The composition of claim 1, further comprising a sunscreen.

18. The composition of claim 17, wherein the sunscreen is present in an amount of from about 0.01% to about 20% by weight of the composition.

19. The composition of claim 1, further comprising a preservative.

20. The composition of claim 1, wherein the oil phase comprises an oil selected from the group consisting of silicone oils, triglyceride esters, natural oils, waxes, hydrocarbons, phospholipids, polyhydric fatty alcohols, polyether derivatives, and combinations thereof.
21. The composition of claim 1, further comprising a solid emollient.
22. The composition of claim 21, wherein the solid emollient is present in an amount of from about 0.1% to about 10% by weight of the composition.
23. The composition of claim 1, further comprising a soothing additive.
24. The composition of claim 23, wherein the soothing additive is selected from the group consisting of allantoin, natural moisturizing and soothing botanical extracts, anti-inflammatory agents, and combinations thereof.
25. The composition of claim 23, wherein the soothing additive is present in an amount of from about 0.001% to about 5% by weight of the composition.
26. The composition of claim 1, wherein the composition further comprises an antioxidant other than coenzyme Q10.
27. The composition of claim 26, wherein the antioxidant is selected from the group consisting of antioxidant vitamins and combinations thereof.
28. The composition of claim 26, wherein the antioxidant is present in an amount of from about 0.001% to about 5% by weight of the composition.
29. The composition of claim 1, further comprising a chemical neutralizer.

30. The composition of claim 29, wherein the neutralizer comprises one or more chemical bases.

31. The composition of claim 29, wherein the neutralizer is present in an amount of from about 0.01% to about 10% by weight of the composition.

32. The composition of claim 1, further comprising an odor-masking agent.

33. The composition of claim 32, wherein the odor masking agent is present in an amount of from about 0.01% to about 3% by weight of the composition.

34. The composition of claim 1, further comprising a moisturizing additive.

35. The composition of claim 34, wherein the moisturizing additive is selected from the group consisting of esters, humectants, natural botanical extracts, phospholipids, silicones, occlusive agents, natural oils, and combinations thereof.

36. The composition of claim 35, wherein the moisturizing additive is present in an amount of from about 0.0001% to about 25% by weight of the composition.

37. The composition of claim 1, wherein the composition imparts skin with a moisture index, as measured by Novameter DPM9003, of at least about 50% relative to untreated skin when applied in an amount of 155mg/cm<sup>2</sup> skin about 120 minutes after application.

38. The composition of claim 1, wherein the composition is in the form a cream, a lotion, a solution, an ointment, or a gel.

39. A cosmetic composition comprising:

(a) urea, which is present in an amount of from about 0.1% to about 10% by weight of the composition;

(b) coenzyme Q10, which is present in an amount of from about 0.001% to about 5% by weight of the composition; and, optionally, one or more of the following ingredients:

- (i) an emulsifier;
- (ii) a thickener;
- (iii) a preservative;
- (iv) a sunscreen;
- (v) a chemical neutralizer;
- (vi) an odor-masking agent;
- (vii) a solid emollient;
- (viii) a soothing additive;
- (ix) a moisturizing additive; and
- (x) an antioxidant.

40. The composition of claim 39, further comprising water and oil.

41. A cosmetic composition comprising an emulsion, the emulsion comprising:

(a) an aqueous phase;

(b) an oil phase;

(c) urea, which is present in an amount of from about 0.1% to about 10% by weight of the composition;

(d) coenzyme Q10, which is present in an amount of from about 0.001% to about 5% by weight of the composition; and, optionally, one or more of the following ingredients:

- (i) an emulsifier;
- (ii) a thickener;
- (iii) a preservative;
- (iv) a sunscreen;
- (v) a chemical neutralizer;
- (vi) an odor-masking agent;
- (vii) a solid emollient;
- (viii) a soothing additive;

- (ix) a moisturizing additive; and
- (x) an antioxidant.

42. The composition of claim 40, wherein:

the aqueous phase is present in an amount of from about 50% to about 90% by weight of the composition;

the oil phase is present in an amount of from about 10% to about 50% by weight of the composition;

the emulsifier is present in an amount of from about 0% to about 20% by weight of the composition;

the thickener is present in an amount of from about 0% to about 5% by weight of the composition;

the preservative is present in an amount of from about 0.01% to about 3% by weight of the composition;

the sunscreen is present in an amount of from about 0% to about 20% by weight of the composition;

the chemical neutralizer is present in an amount of from about 0% to about 10% by weight of the composition;

the odor-masking agent is present in an amount of from about 0% to about 3% by weight of the composition;

the solid emollient is present in an amount of from about 0% to about 10% by weight of the composition;

the soothing additive is present in an amount of from about 0% to about 5% by weight of the composition;

the moisturizing additive is present in an amount of from about 0% to about 20% by weight of the composition; and

the antioxidant is present in an amount of from about 0% to about 1% by weight of the composition.

43. A method of enhancing moisture retention in the skin from the epidermis, the method comprising topically applying a moisture-retaining inhibiting effective amount of the composition of claim 1 to the skin.

44. A method of reducing the rate of escape of water from the epidermis, the method comprising topically applying a moisture-loss inhibiting effective amount of the composition of claim 40 to the skin.

45. A method of improving the after-feel of a cosmetic composition when the composition is applied to the skin, the method comprising including in the composition an after-feel enhancing-effective amount of coenzyme Q10 and urea, wherein the ratio of urea to coenzyme Q10 in the composition is from about 1:5 to about 20:1 (wt./wt.).